

INTERNATIONAL SEARCH REPORT

PCT/IB 03/00172

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03K17/687

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 628 307 A (CROUSE WILLIAM G) 9 December 1986 (1986-12-09) figure 1	1,3
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06, 30 June 1997 (1997-06-30) & JP 09 046176 A (MITSUBISHI ELECTRIC CORP), 14 February 1997 (1997-02-14) abstract	1,3

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

13 June 2003

Date of mailing of the international search report

24/06/2003

Name and mailing address of the ISA

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tent family members

PCT/IB 03/00172

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4628307	A	09-12-1986	EP 0185876 A2	02-07-1986
			JP 1757617 C	20-05-1993
			JP 4033179 B	02-06-1992
			JP 61146040 A	03-07-1986
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JP 09046176	A	14-02-1997	NONE	
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